

## ABSTRACT OF THE DISCLOSURE

To provide an image processing system and the like which can perform an image distortion correction and focus adjustment approximately at the same time without changing a projecting position intended by a user, a projector includes: a  
5 distortion correcting section which corrects image signals to adjust the distortion in an image; an image projection section which includes a lens unit having a focus adjustment function, the lens unit projecting an image based on the corrected image signals; a control section and a focus lens driving section which control the driving of the lens unit  
10 so that the focal length of the lens unit to an image projection area changes; a sensing section which senses the projected image; and a distortion correction deriving section which derives the focal length to the center of the image projection area and also an amount of distortion correction provided by the distortion correcting section, based on sensing information.